

114858  
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Requestor's  
Name: Paul Tucker

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Number: 161705, 665

Date: 2/23/00

Phone: 571-272-0650

Art Unit: 1621

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*6340767*

*6340767*

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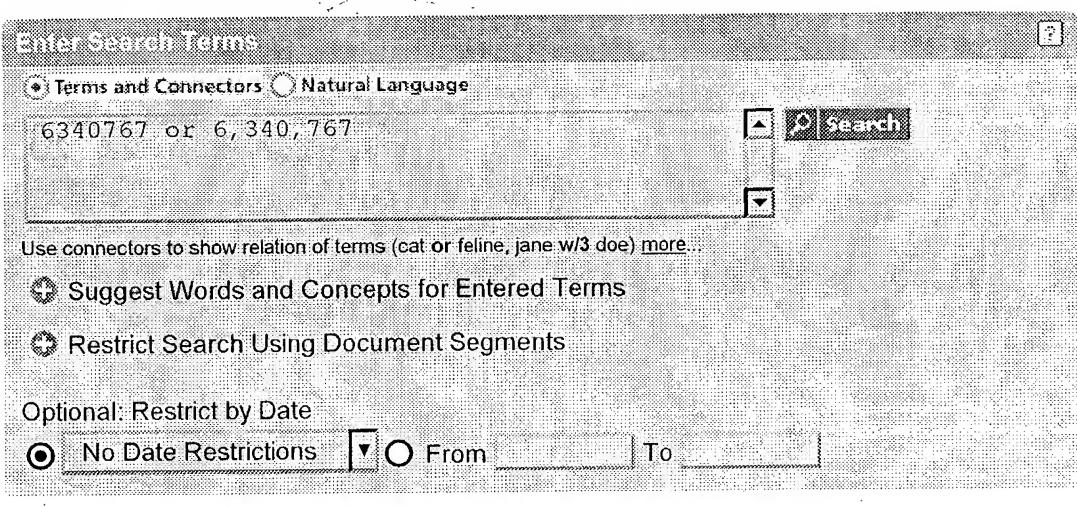
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762215 (09) 6340767 January 22, 2002

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**6340767**

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January 22, 2002

Processes for the preparation of 5-hydroxy-3-oxopentanoic acid derivatives

**REISSUE:** November 12, 2003 - Reissue Application filed Ex. Gp.: 1621; Re. S.N. 10/705,665 (O.G. January 13, 2004)

**APPL-NO:** 762215 (09)

**FILED-DATE:** April 5, 2001

**GRANTED-DATE:** January 22, 2002

**CORE TERMS:** atom, carbon, mixture, mmol, acid, lithium, substituent, ethyl, tert-butyl, stirred ...

**ENGLISH-ABST:**

This invention provides a process for producing a 5-hydroxy-3-oxopentanoic acid, a useful pharmaceutical intermediate, easily from a readily available, inexpensive starting material without using any extraordinary production equipment such as a very-low-temperature reactor.

Thus, this invention provides a process for producing a 5-hydroxy-3-oxopentanoic acid

which comprises permitting a lithium amide to act upon a mixture of an acetic acid ester and a 3-hydroxypropionic acid derivative at not below -20[deg] C.

Further, this invention also provides a process for producing a 5-hydroxy-3-oxopentanoic acid

which comprises treating a mixture of an acetic acid ester and a 3-hydroxypropionic acid derivative with a Grignard reagent to prepare a mixture of a compound and an acetic acid ester of the above formula (I),

and permitting a lithium amide to act upon the mixture at a temperature not below -20[deg] C.

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